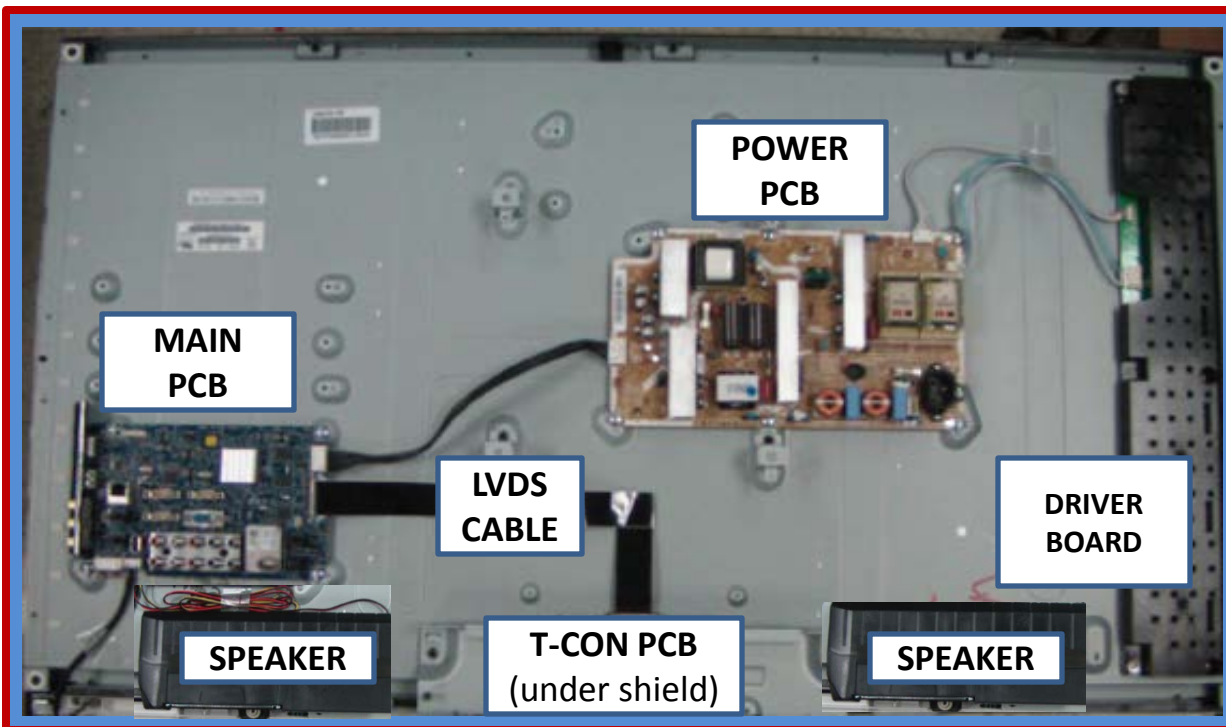




SERVICE BULLETINS

2010 LCD Option Byte Table

Verify All Parts Numbers Are Current

Version	Parts No	Short Description
ALL	BN44-00340A	Power PCB Function & IR PCB
ALL	BN96-13022B	
ALL	BN96-15675A	Main PCB
ALL	BN07-00800A	Panel
ALL	BN81-04462A	T-CON PCB
ALL	BN61-06027A	Stand Guide Neck
ALL	BN96-12767Y	Rear Cover
ALL	BN96-13509A	Front Cover
ALL	BN96-12795A	Stand Guide
ALL	BN96-12799A	Stand Base
ALL	BN40-00163A	Tuner
ALL	BN96-12837A	Speaker
ALL	BN96-13171U	LVDS Cable
ALL	3903-000467	Power Cord
ALL	BN59-00996A	Remote
ALL	BN63-01798B	Cleaning Cloth

HELP : 1-888-751-4086; 1-866-894-0637 (FE)

GSPN

<http://gspn3.samsungcsportal.com>

PLUS ONE

<http://my.plus1solutions.net/clientPortals/samsung>

HOT TIPS

Power On Problems: (see page 2)

Video Problems: (see pages 3,4)

TIP: After replacing Main/Panel picture is upside down.

Fix: Test Mode/Mirror Option/Toggle

FIRMWARE

10/18/2010

Firmware for SX1 & X4 Model

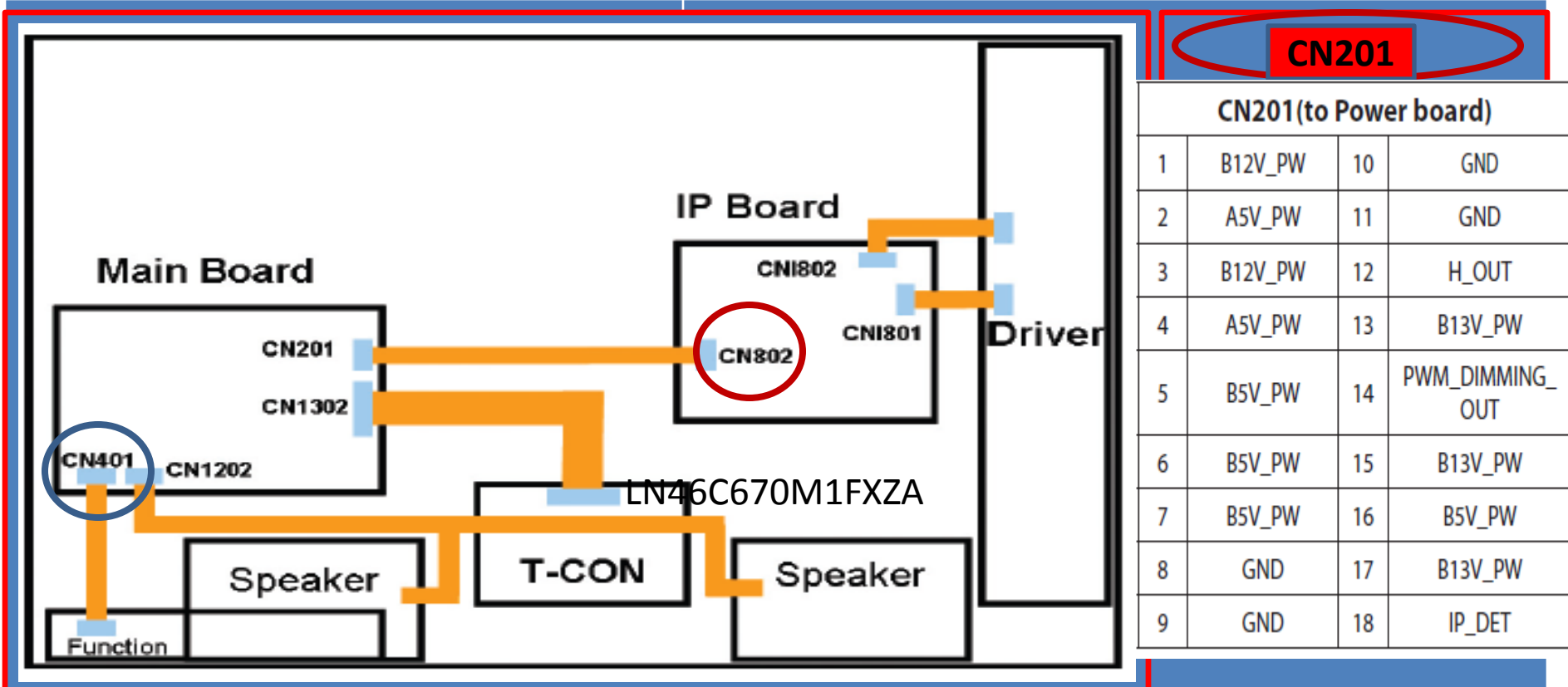
-. Version : 1016.3 (SX1), 2006.0 (X4)

-. Folder Name: T-TDT5AUSC / T-MSX5AUSC

This firmware will prevent below problems

. Distorted picture on 70 Hz, 75 Hz

. Distorted picture on DTV PIP with 1080i mode



- Power On Sequence (approximate Voltages)**
1. **Standby Voltages:** CN201-4 (5V)
 2. **Power On** CN201-2 (0 – 3V)
 3. **Low Voltage Supplies On** CN201-1,3,5,7,13,15,17 (Volts Listed on CN802)
 4. **Back Light On** CN201-16 (0-3V, delayed)
 5. **Back Light Confirm** CNI802- (FB1 & FB2)
 6. **Dimming Signal** CN201-14 (1V–4V approx)

To Force Backlight On without Main Board :

1. Remove Power Cord
2. Remove CN802
3. Plug Power Cord In.
4. Backlight should be on immediately.

CN401 (to Function/IR)

1	IR	6	KEY_INPUT1
2	GND	7	KEY_INPUT2
3	A3.3V_PW	8	LED_STB
4	MSCL_A5V	9	LED_CNTR
5	MSDA_A5V	10	A3.3V_PW

TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

- Customer Picture Test** (models available)
- "Display"** (If display is OK source is suspected)
- Substitute with known good Source
(external DVD or Signal Generator)

2. Using Test Patterns in Service Mode

- ENTER SERVICE MODE -

- Select an active source signal. (HDMI preferred)
Test Pattern may rely on signal source to appear.

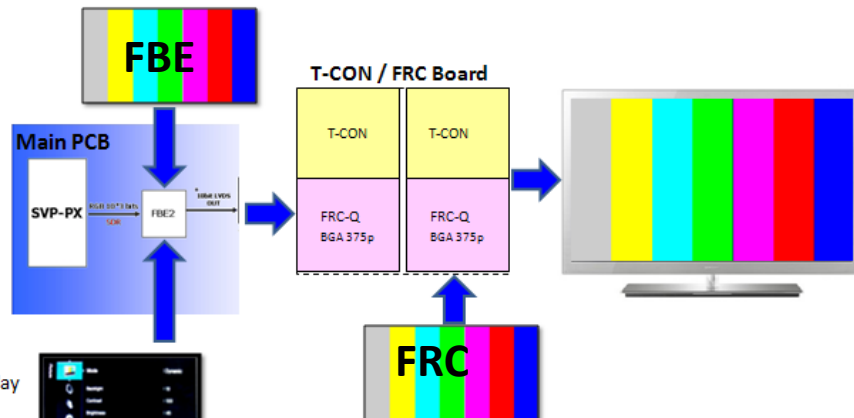
Customer Remote

- Power off
- Mute, 182, Power

Service Remote

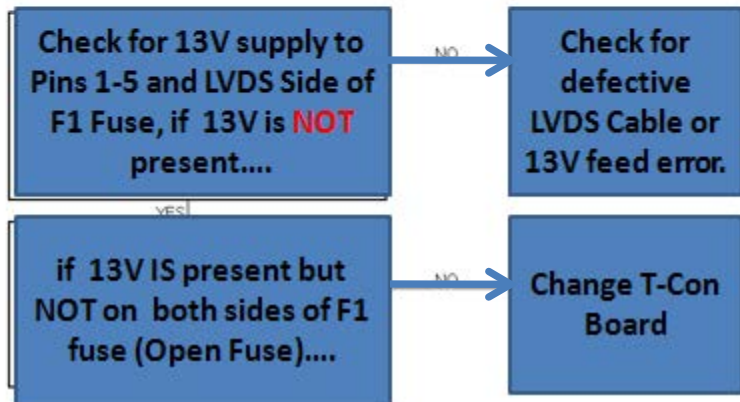
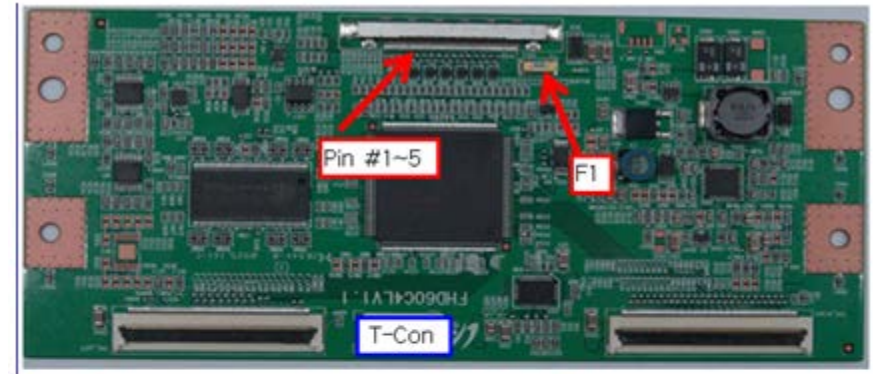
- Power On
- Info, Factory

2010 Models with FRC 120Hz/240Hz LCD Signal Path for Troubleshooting

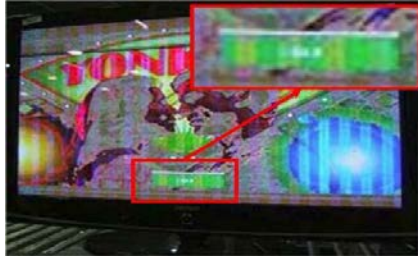


1. Check OSD & Customer Picture Test.
2. Access SVC Mode (with source signal)
3. Activate **FBE** Test Patterns & Verify.
4. Activate **FRC** Test Patterns & Verify.

T-Con Troubleshooting



ON SCREEN FAILURE EXAMPLES:



If Picture & Display errors
Defective Main Board, LVDS,
or T-CON



Green lines or a green screen
defective main board , LVDS , or
T-CON.

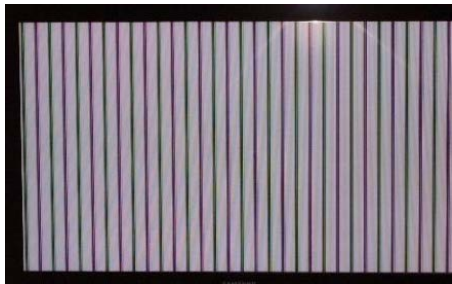


Original Image



Image on Screen

Pixelization can be caused by the main board
but is more commonly a source error



Vertical or Horizontal Lines :Defective
Panel likely but also T-CON, LVDS, or Main
Board. Use Test Patterns in Factory Service
Mode to determine error)

ALIGNMENTS:

1. Check/Set Option Bytes:

Using the Customer Remote

1. Turn the power off and set to stand-by mode
2. Press the remote buttons in this order; POWER OFF-MUTE-1-8-2-POWER ON to turn the set on.
3. The set turns on and enters service mode. This may take approximately 20 seconds.
4. Press the Power button to exit and store data in memory.
- If you fail to enter service mode, repeat steps 1 and 2 above.
5. Initial SERVICE MODE DISPLAY State

Project	PB5G	PB5G	PB5G
Model	B550	B550	B550
Model Code	PN6B550T2FXZA	PN6B550T2FXZA	PN6B550T2FXZA
No.	ITEMS		
1	Factory Reset	-	-
2	Type	50FSpl4	58FNK1
3	Model	PB550	PB550
4	TUNER	ALPS	ALPS
5	Region	US	US
6	DDR	SAMSUNG	SAMSUNG
7	Light Effect	Off	Off
8	Inch	50"	55"
9	Exhibition Mode	Off	Off

Option Bytes

Factory Reset	
Type	50HSHB4
Model	PB550
TUNER	ALPS
Region	US
DDR	SAMSUNG
Light Effect	Off
Inch	50"
Exhibition Mode	Off

Model Code	Front Color					
		Type	Model	Tuner	Region	Side Label
LN40C540F2FXZA	S-R-BLK	40L6AF0C	LC540	Semco	US	AA04

2. Check/Perform Firmware Upgrade for all repairs.

3. Perform reset in Service Mode & Plug and Play if Main board is replaced.

SPECIAL NOTES:

Inform customer of reset of all
Settings if Main Board or Panel is replaced.